

FIG.1

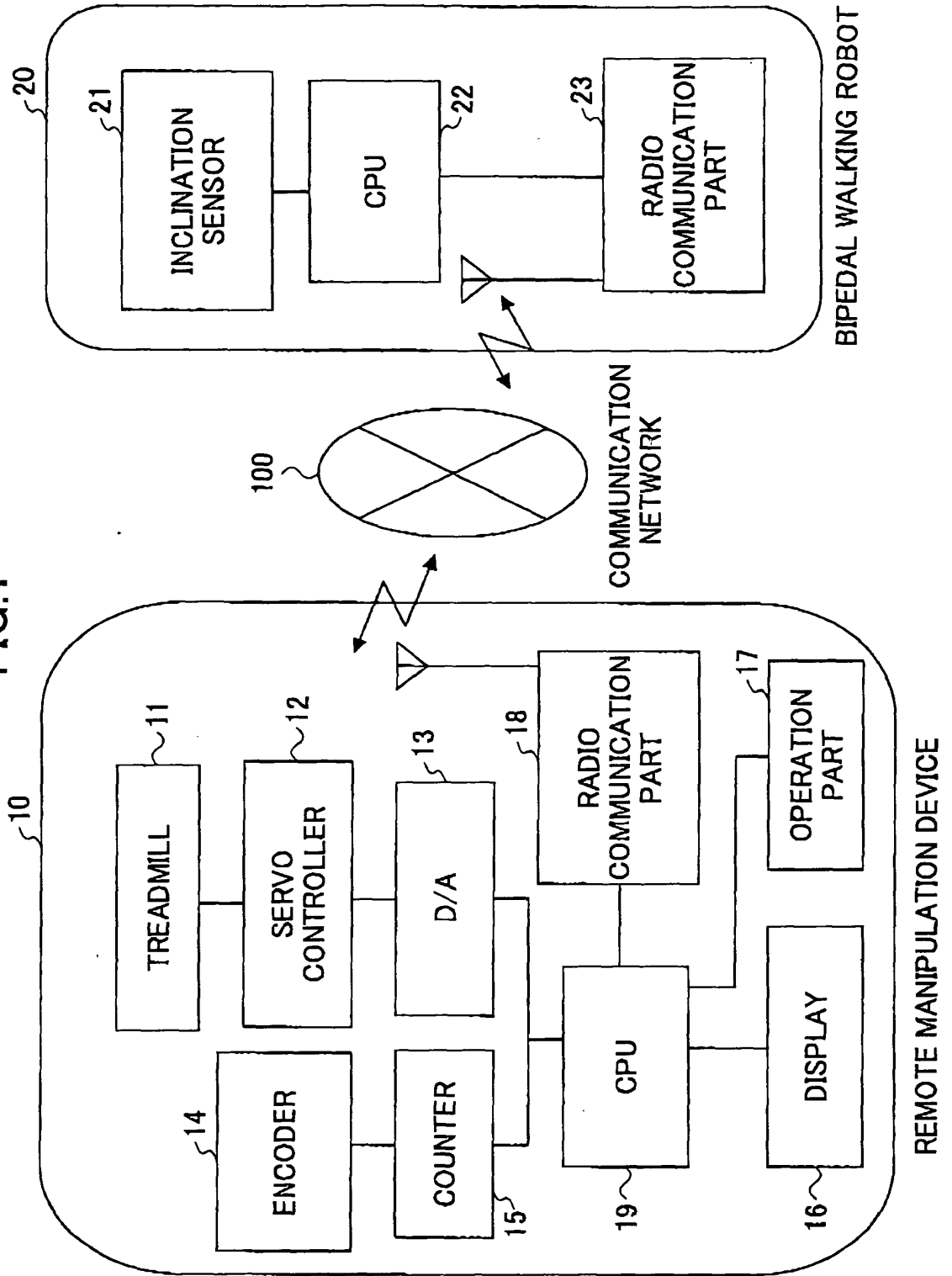


FIG.2

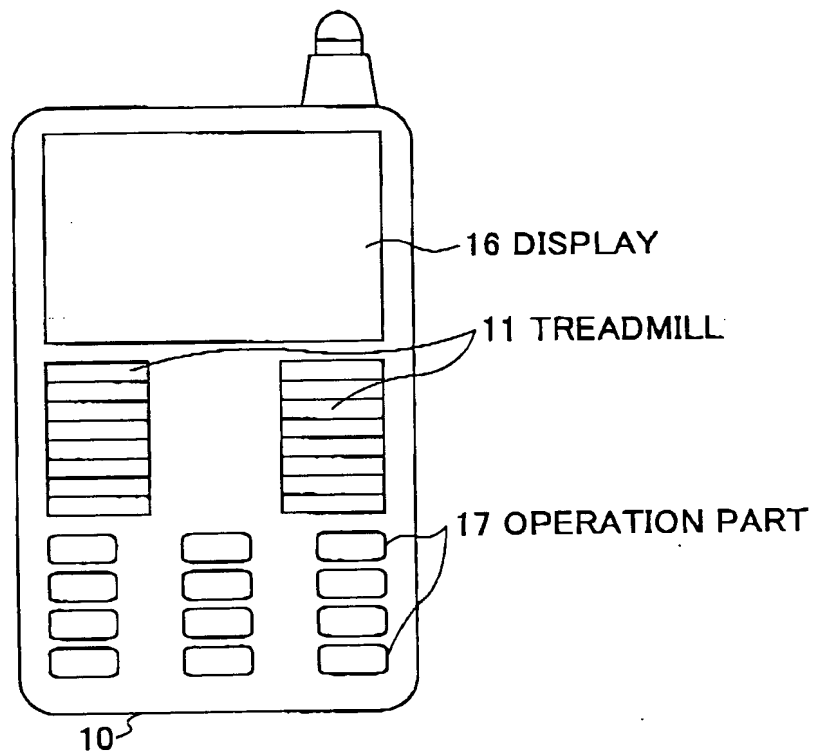


FIG.3

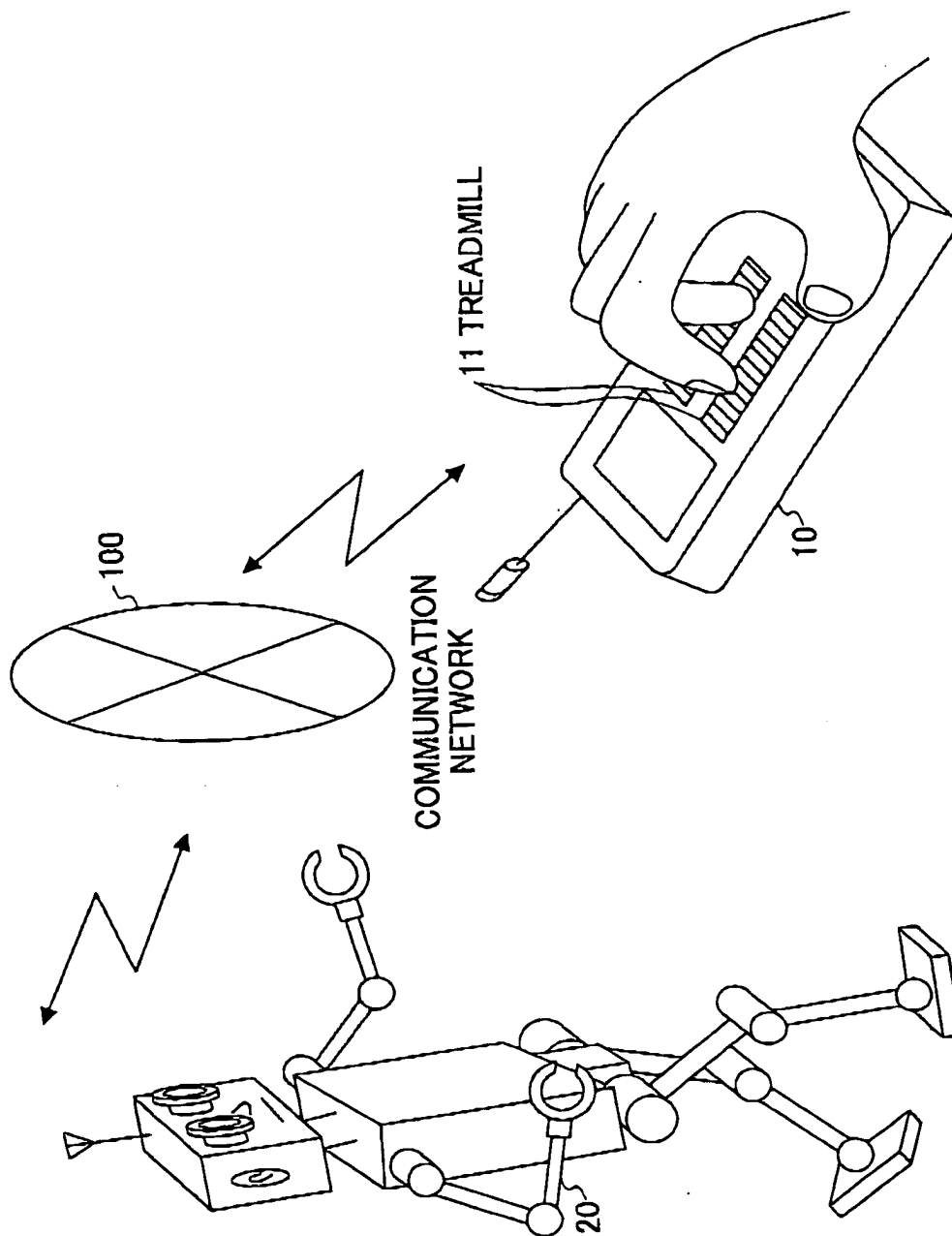


FIG.4

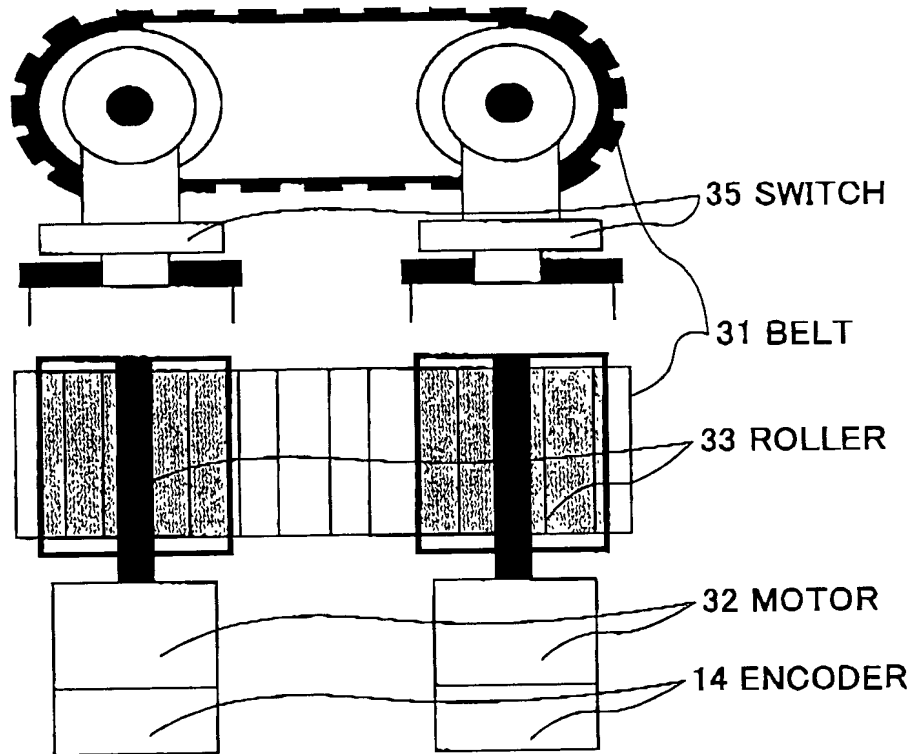


FIG.5

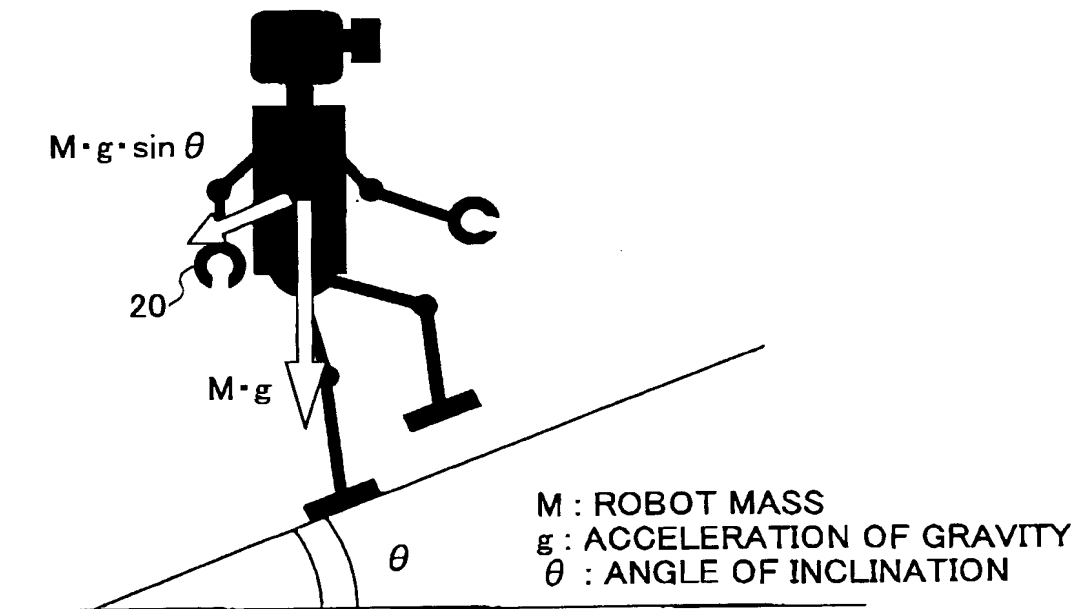
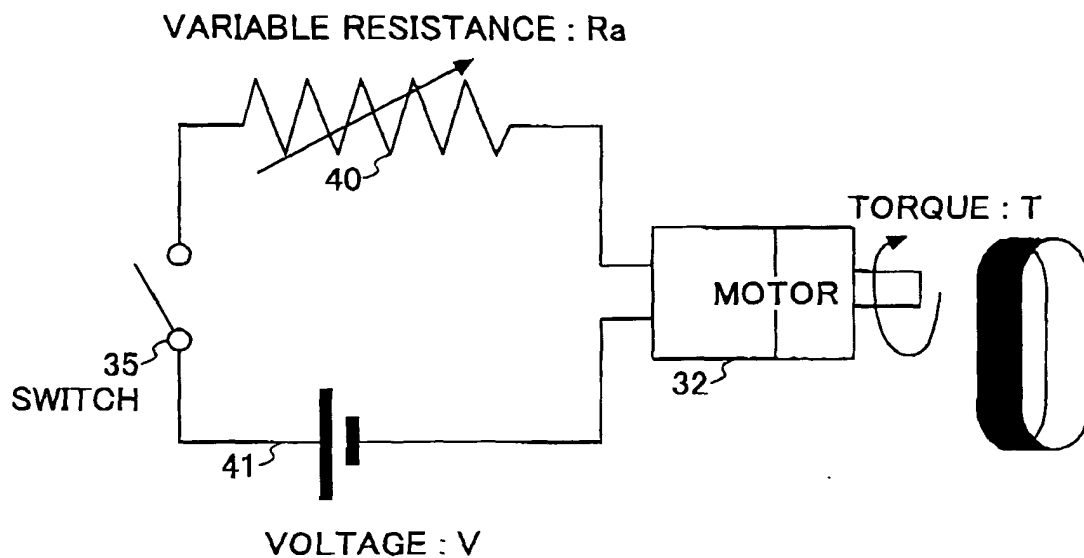


FIG.6



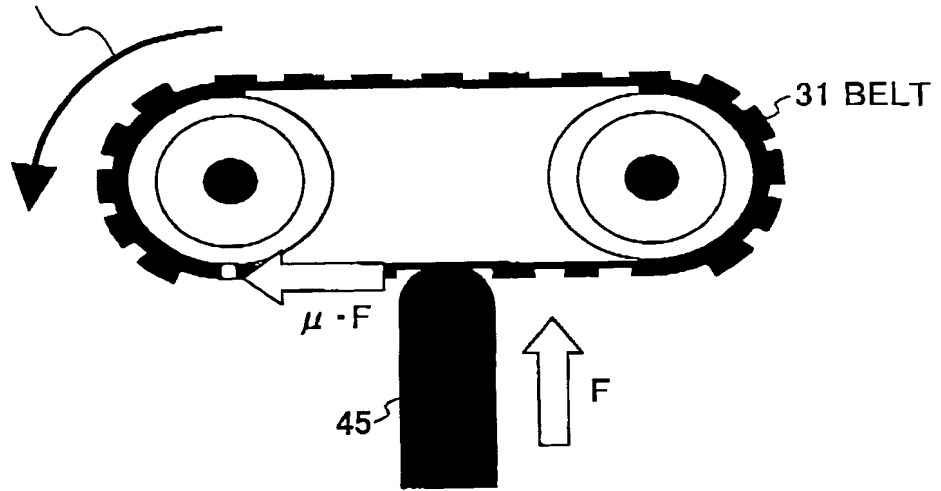
K : COUNTER ELECTROMOTIVE FORCE CONSTANT OF MOTOR
 Δl : QUANTITY OF MOTION

$$R_a = \frac{K}{T} (V - K \cdot \omega)$$

$$R_a = \frac{K}{C_0 \cdot M \cdot g \cdot \sin \theta} (V - C_1 \cdot \Delta l)$$

FIG.7

ROTATIONAL DIRECTION



$$\mu \cdot F = C \cdot M \cdot g \cdot \sin \theta$$

FIG.8

$$\text{CURVATURE : } 1/R = \frac{\Delta LR - \Delta LL}{\Delta LR + \Delta LL} \frac{2}{D}$$

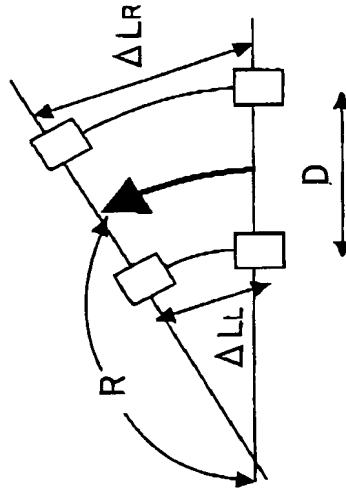
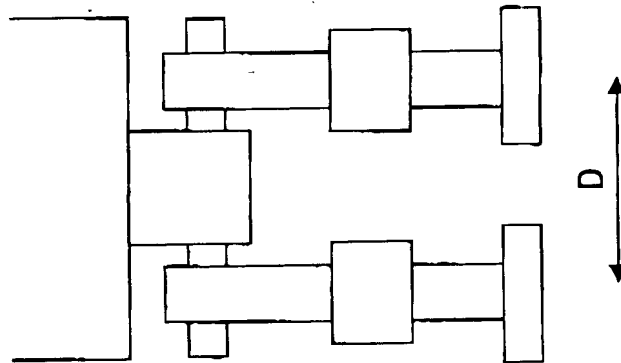


FIG.9

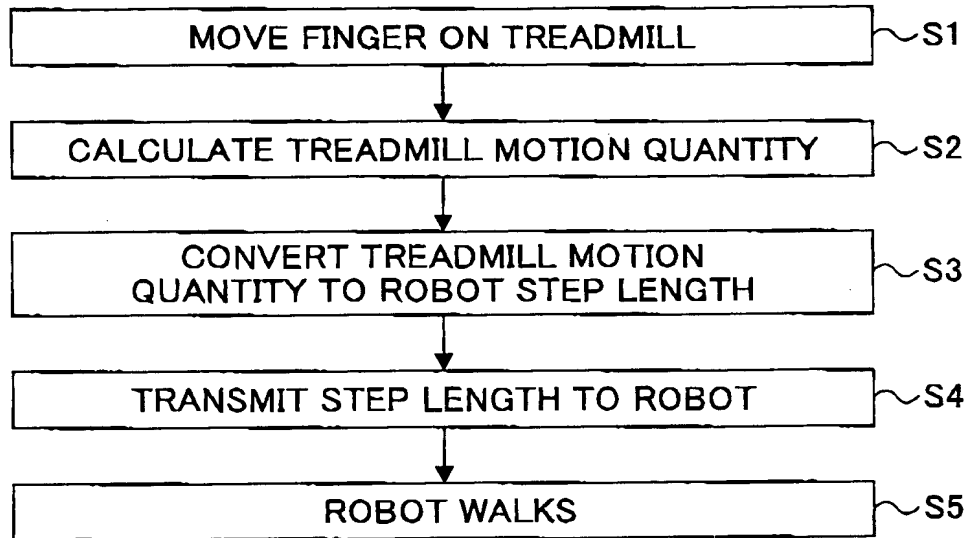


FIG.10

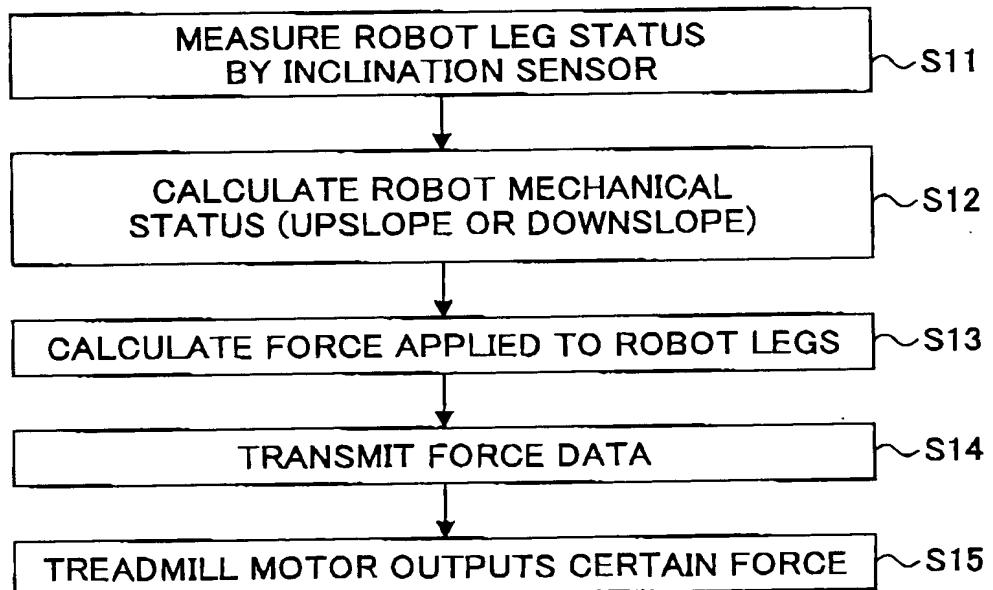


FIG.11

